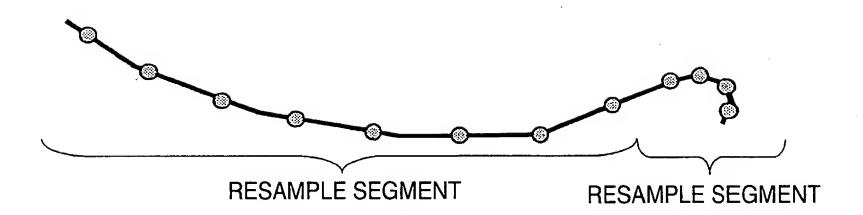
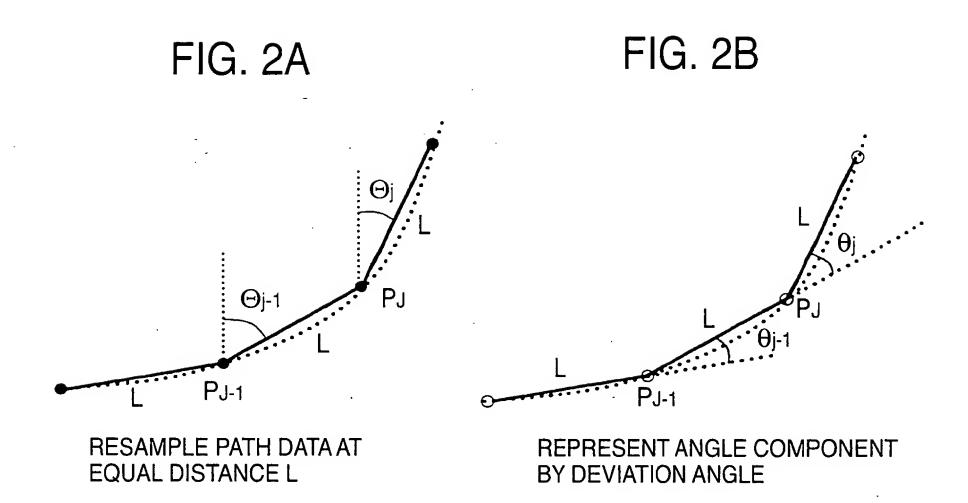
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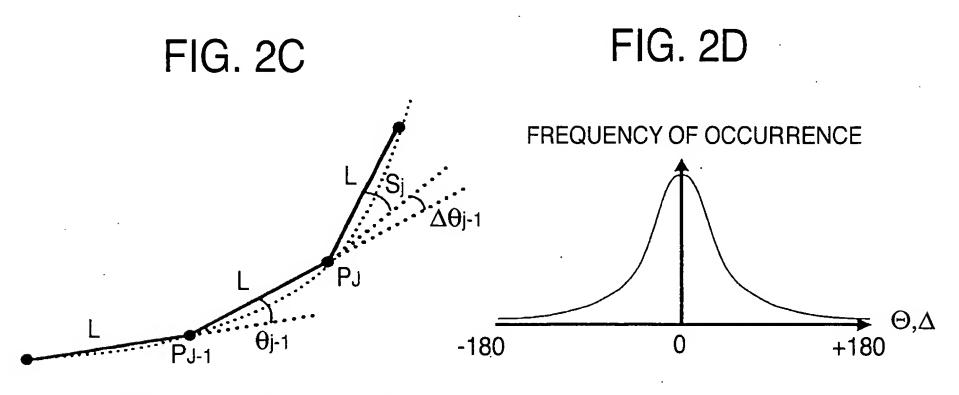
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FIG. 1



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REPRESENT DEVIATION ANGLE BY STATISTICAL PREDICTION VALUE DIFFERENCE

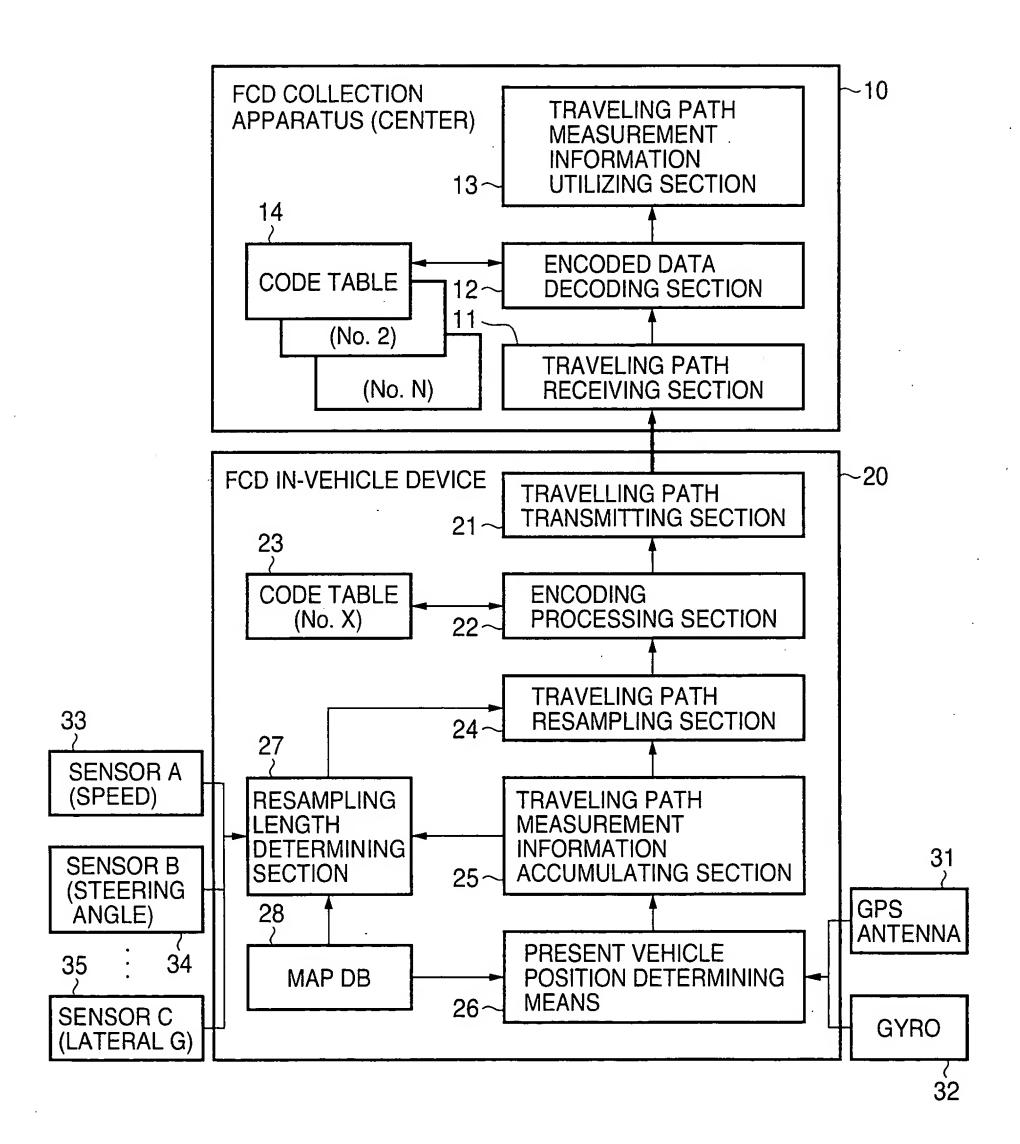
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RANGE OF Δθ VALUE (°) ±8~10 1~+1 ±5~7 1 3(40/80/160/···/5120m +1 ADDITIONAL BIT (FOR IDENTIFYING ±) (FOR IDENTIFYING ± (FOR IDENTIFYING ±) 0 ADDITIONAL BIT 0 0 0 111100 111101 CODE CODE 1110 1100 1101 100 101 0 SEGMENT LENGTH CHANGE CODE Δθ VALUE(° 9 က O 0 0 0 +1 +1 +1 SPECIAL CODE INPUT VALUE EOD CODE **RUN LENGTH** 0 2 0 0 0

FIG. 3

FIG. 4



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FIG. 5

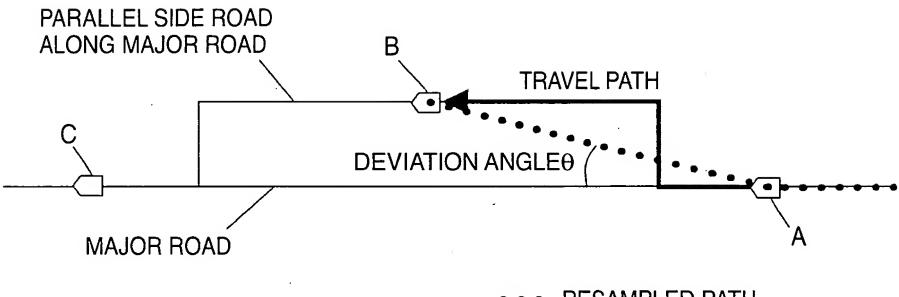
EXAMPLE OF TRANSMISSION DATA FORMAT

VEHICLE ID INFORMATION
IDENTIFICATION NUMBER OF THE CODE TABLE IN USE
ENCODING METHOD INSTRUCTION NUMBER
NUMBER OF SAMPLING LOCATION POINTS OF POSITIONAL INFORMATION
ABSOLUTE LONGITUDE AND LATITUDE OF THE LAST MEASURED LOCATION
ABSOLUTE ORIENTATION OF BETWEEN LAST LOCATION → PREVIOUS LOCATION
ENCODED DATA OF TRAVELING PATH (INCLUDING BIT STRING OF ENCODED θ, Δθj ; AND SEGMENT LENGTH CHANGE CODE)

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FIG. 6



• • • RESAMPLED PATH CONFIGURATION

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FIG. 7A

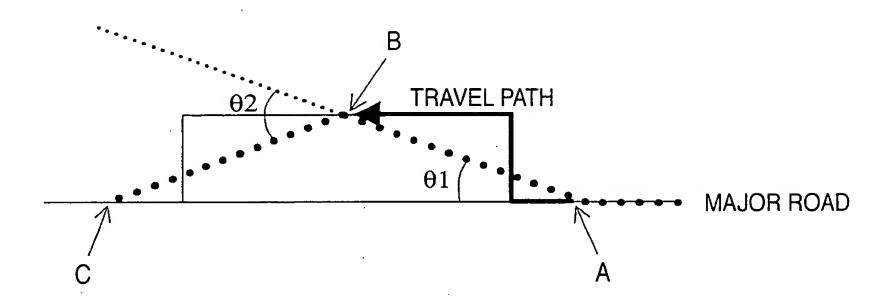
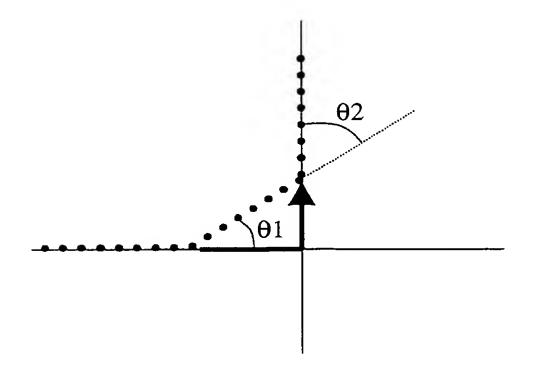


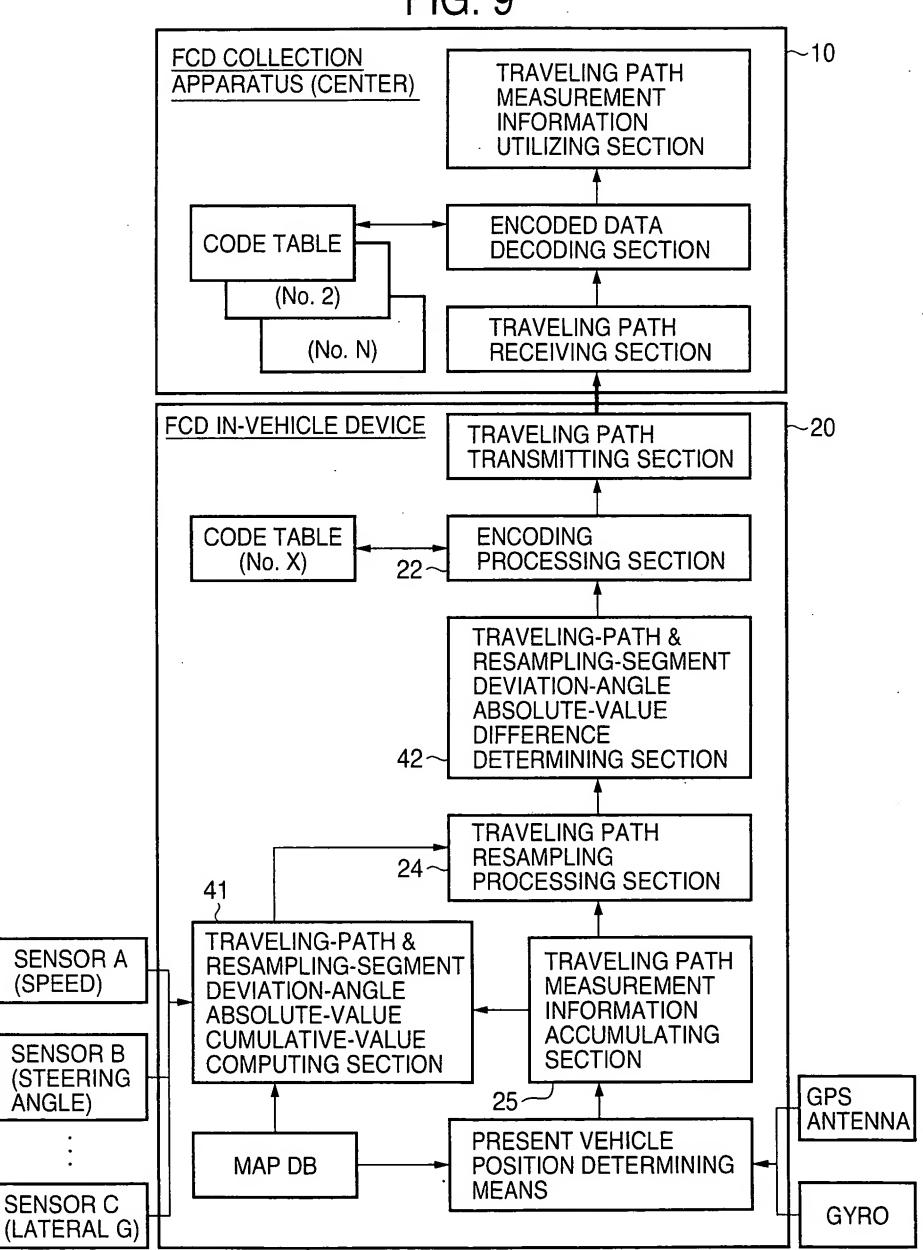
FIG. 7B



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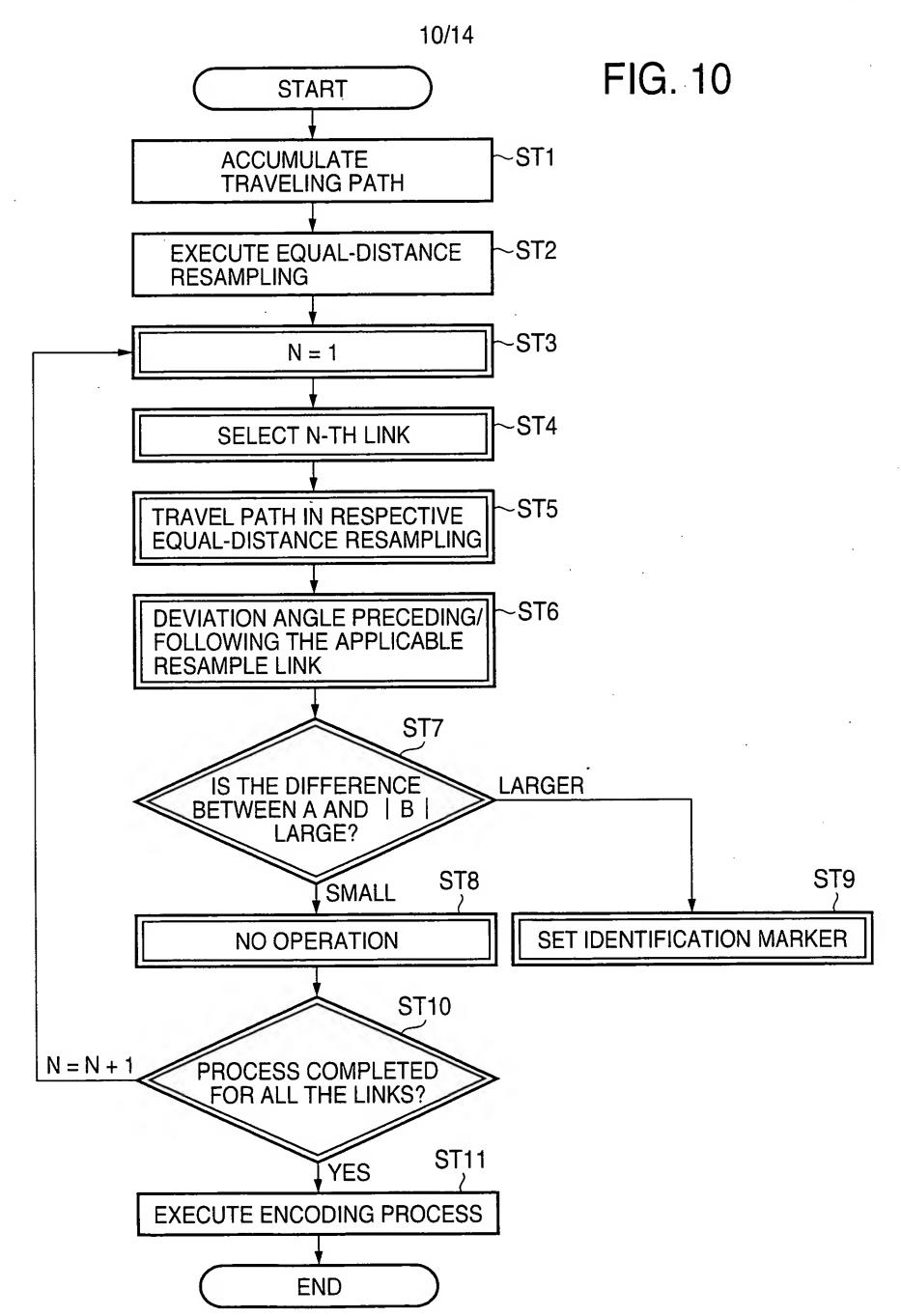
Application No.: TBD Applicant: Shinya Adachi Atty. Docket No.: 38775

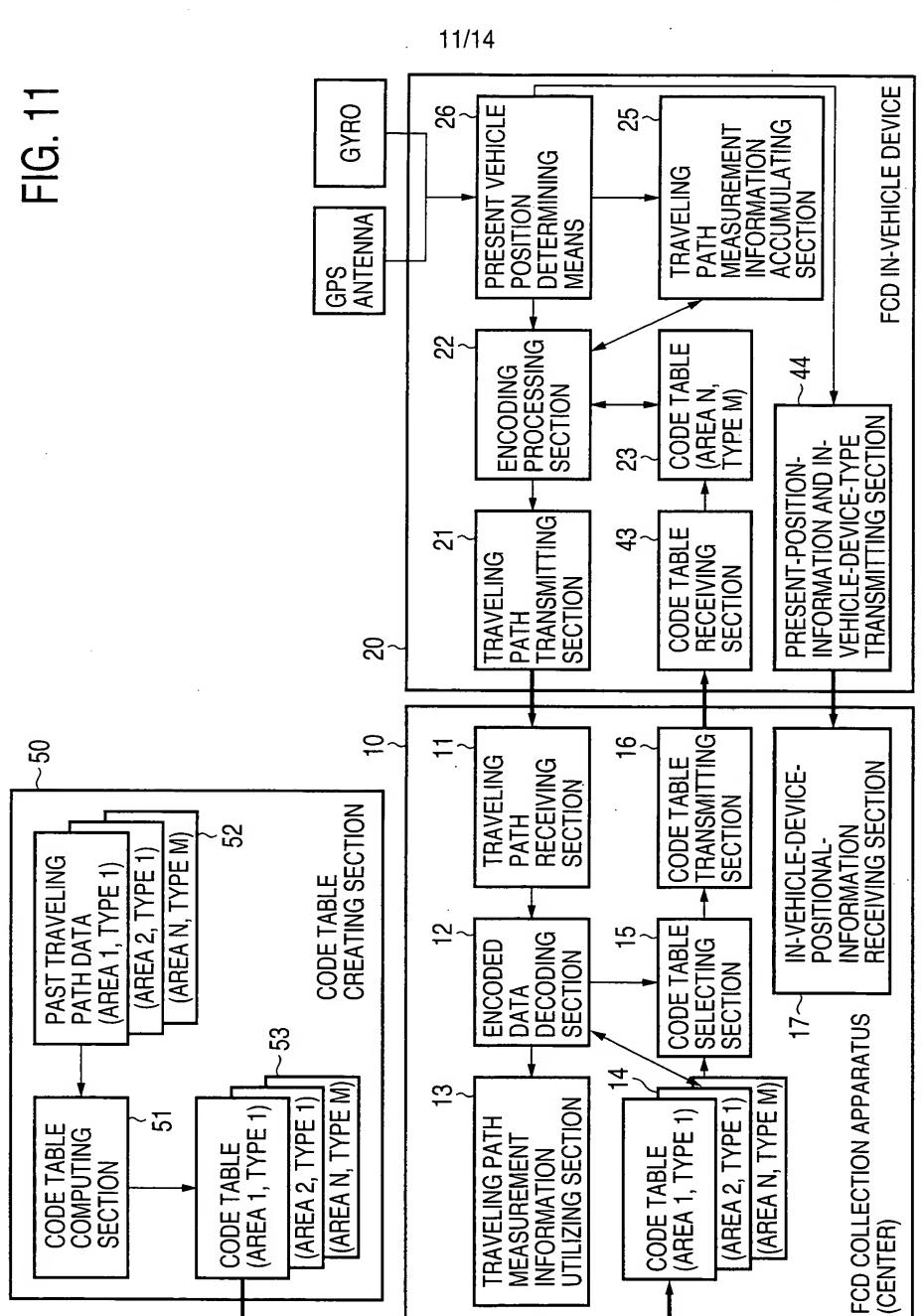
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ÀNGLE)

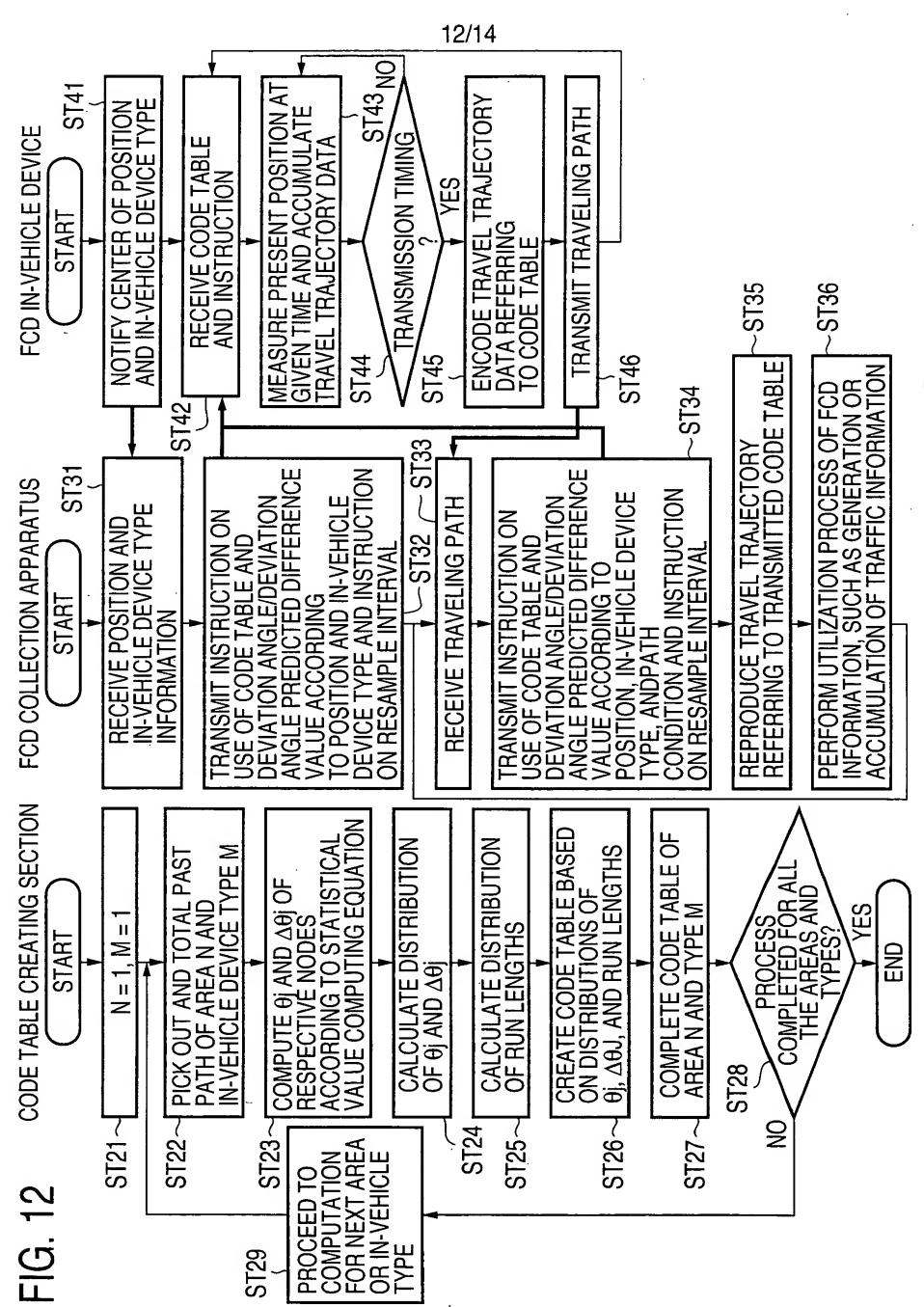
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FIG. 13A

EXAMPLE OF TRANSMISSION
DATA FORMAT FCD COLLECTION
APPARATUS → FCD IN-VEHICLE DEVICE

ENCODING METHOD INSTRUCTION NUMBER
INOTITIO TOTAL TOTAL DELI
IDENTIFICATION FLAG INDICATING DEVIATION ANGLE REPRESENTATION OR DEVIATION ANGLE PREDICTED DIFFERENCE REPRESENTATION (= DEVIATION ANGLE REPRESENTATION)
SAMPLING DISTANCE INTERVAI OF POSITIONAL INFORMATION (= 200 M)
CODE TABLE OF DEVIATION ANGLE θ

CODE TABLE OF θ

θ VALUE (QUANTIZED UNIT DIFFERENCE)	CODE	ADDITIONAL BIT
0	0	.0
RUN LENGTH OF 0	11110	. 0
± 1	100	1 (FOR IDENTIFYING ±)
± 2	101	1 (FOR IDENTIFYING ±)
± 3	1100	1 (FOR IDENTIFYING ±)
	\$	

FIG. 13B

FCD IN-VEHICLE DEVICE → FCD COLLECTION

VEHICLE ID INFORMATION	
ENCODING METHOD INSTRUCTION NUMBER	
NUMBER OF SAMPLING LOCATION POINTS FOR θ	
ENCODED DATA OF DEVIATION ANGLE θ WITH RESPECT TO PREVIOUS SAMPLING LOCATION (BIT STRING IN WHICH θ IS ENCODED)	-
MEASUREMENT INFORMATION (SPEED ,FUEL CONSUMPTION ,ETC.)	

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FIG. 14

